BRUHAT BANGALORE MAHANAGARA PALIKE

BYATARAYANA PURA DIVISION

Name of Work: Construction of RCC Drain & RCC Culverts at 1st Main Road, Cross roads & surrounding area, Muneshwara Nagara in Ward No.05

ESTIMATE COST :66.00 Lakhs

Executive Engineer,
BYATARAYANAPURA DIVISION,

BRUHATH BENGALORE MAHANAGARA PALIKE

Name of Work :- Construction of RCC Drain & RCC Culverts at 1st Main Road, Cross roads & surrounding area, Muneshwara Nagara in Ward No.05

.						Estimated Cost:66.00 Lkahs			
Sl No	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
1	KSRRB 300-3. **Earthwork excavation by manual means** for roads, drains & similar works in ordinary soil invoiving , excavated surface leveled & sides neatly dressed , the disposed earth to be levelled neatly after breaking of clods complete as per specification MORTH/ Chapter 3. (Page No. 142/ Item No. 19.1/ PWD SR 2018-19)								
	Kattigenahalli								
	Muneshwara Nagara								
	For RCC Drain								
	3rd cross	2	220.00	1.10	1.00	484.00			
	Cross Road From 1st to 4th cross	2	76.00	1.10	1.00	167.20			
	1st Main Road	1	80.00	1.10	1.00	88.00			
	For Culvert								
	1st Main Road	4	6.50	1.70	1.00	44.20			
	Cross Road	1	6.00	1.50	1.00	9.00			
						792.40	**Cum**	**220.40**	**174644.96**
	Basic Rate	130.00							
	Loading and Unloading	57.00							
	Lead For Earth 10km	25.60							
	Area Weightage 6%	7.80							
	Data Rate	**220.40**							
2	KSRRB M2100-10. Providing and laying **Plain cement concrete of mix 1:3:6** with OPC @ 220kgs, with crushed 40mm and down size graded granite metal coarse aggregates @0.89cum and fine aggregates @ 0.46cum, in foundation mechanically mixed, placed in foundation and compacted by vibration including curing for 14 days including cost of all materials, labour, HOM curing, form works, scaffolding and centering complete as per specifications. (P.No-222,I No-27.18 PWD SR 2018-19)								
	Kattigenahalli								
	Muneshwara Nagara								
	For RCC Drain								
	3rd cross	2	220.00	1.10	0.15	72.60			
	Cross Road From 1st to 4th cross	2	76.00	1.10	0.15	25.08			
	1st Main Road	1	80.00	1.10	0.15	13.20			
	For Culvert								
	1st Main Road	4	6.50	1.70	0.15	6.63			
	Cross Road	1	6.00	1.50	0.15	1.35			
						118.86	**Cum**	**5509.33**	**654838.57**
	Basic Rate	5115.00							
	Deduct Cement cost as per SR -18-19 Page No.V Sl.No.123	-1079.39	Note:- (220*490.63/100)=1079.39						
	Add Cement cost as per Issue rate	1161.86	Note:- (220*264.06/50)=1161.86						
	Sub Total	**5197.48**							
	Area Weightage 6%	311.85							
	Grand Total	**5509.33**							
3	Providing and laying plain/reinforced cement concrete for side drains **using M20 nominal mix** concrete with OPC at 300 kgs. with 20mm and down size granite metal coarse aggregates at 0.69 cum and fine aggregates at 0.43 cum machine mixed, well compacted for walls and bottom including centering, shuttering, cost of materials, HOM of machinery, curing etc., complete excluding cost of steel as per MORTH specification No. 1500, 1700, 2200. including cost of materials, labour, HOM complete as per specificationsdo- Wall & bottom thickness 15cm (I No-37.59.2,P No-271 PWD SR 2018-19)								
	Kattigenahalli								
	Muneshwara Nagara								
	For RCC Drain								

Sl No	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
	Bottom Raft								
	3rd cross	2	220.00	0.90	0.15	59.40			
	Cross Road From 1st to 4th cross	2	76.00	0.90	0.15	20.52			
	1st Main Road	1	80.00	0.90	0.15	10.80			
	For Culvert								
	1st Main Road	4	6.50	1.50	0.20	7.80			
	Cross Road	1	6.00	1.20	0.20	1.44			
	For Wall								
	3rd cross	4	220.00	0.15	0.75	99.00			
	Cross Road From 1st to 4th cross	4	76.00	0.15	0.75	34.20			
	1st Main Road	2	80.00	0.15	0.75	18.00			
	For Culvert								
	1st Main Road	8	6.50	0.30	0.75	11.70			
	Cross Road	2	6.00	0.30	0.75	2.70			
						265.56	**Cum**	**7189.42**	**1909221.90**
	Basic Rate	6670.00							
	Deduct Cement cost as per SR -18-19 Page No.V Sl.No.123	-1471.89	Note:- (300*490.63/100)=1471.89						
	Add Cement cost as per Issue rate	1584.36	Note:- (300*264.06/50)=1584.36						
	Sub Total	**6782.47**							
	Area Weightage 6%	406.95							
	Grand Total	**7189.42**							
4	KSRB 4.9.2 : Providing T.M.T steel reinforcement for R.C.C workincluding straightening, cutting, bending, hooking, placing in position,lapping and / or welding wherever required, tying with binding wire andanchoring to the adjoining members wherever necessary complete asper design (laps, hooks and wastage shall not be measured and paid)cost of materials, labour, HOM of machinery complete as perspecifications.Specification No. KBS 4.6.3 (I No-28.8.2,P No-229 PWD SR 2018-19)								
	Consider 65kg/Cum for drain	1	241.92	65.00		15724.80			
	Consider 90kg/Cum for culvert	1	23.64	90.00		2056.68			
						17.78	**Tonne**	**72326.98**	**1286080.75**
	Basic Rate	68233.00							
	Area Weightage 6%	4093.98							
	Data Rate	**72326.98**							
5	Providing and Fixing pre cast covering Slab made out of CC 1:2:4 with 10cm thick and Finishing cutting ,including form work,curing,including cost of alll materials, labour,hire charges of machinery,loading,unloading,lead and lift,transportation etc ,copmplete.(Data Rate)								
	Muneshwara Nagara								
	For RCC Drain								
	3rd cross	2	220.00	0.90		396.00			
	Cross Road From 1st to 4th cross	2	76.00	0.90		136.80			
	1st Main Road	1	80.00	0.90		72.00			
						604.80	**Sqm**	**2337.00**	**1413417.60**
	Data Rate	**2337.00**							
6	Providing and fixing Precast RCC slab of **250mm thick for Culverts** made of Plain/Reinforced Cement Concrete design mix M25 with OPC@340kgs,with 20mm and down size graded granite metal coarse aggregates @0.70cum and fine aggregates@0.47cum,with superplasticizer@3lts confirming to 189103-1999 Reaffirmed-2008,Open Foundation complete as per Drawing and Technical Specification including cost of all materials, labour,HOM curing,form works,scaffolding and centering complete as per specifications and pointing for ljoints 1:3 cement mortar including form work,lift charges,curing and concrete finished surfaces on both sides etc,complete and as per the directions of Engineer in-Charge. **(Data Rate)**								
	For Culvert								
	1st Main Road	4	6.50	1.50		39.00			
	Cross Road	1	6.00	1.20		7.20			
						46.20	**Sqm**	**5418.00**	**250311.60**
	Data Rate	**5418.00**							

Sl No	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
								Total Construction Cost	5688515.37
								GST Charges 12%	682621.84
								KRIDL Charges 4%	227540.61
								Sub Total	6598677.83
								Utility Shifting,Miscellaneous and Rounding off	1322.17
								GRAND TOTAL	6600000.00

Certificate

1) This Work Comes Within BBMP Limits.
2) Certified that personaly Inspected the Work Spot.
3) Certified that the Estimate is Prepared Based on CSR of PWD Bangalore Circle 2018-19 & issued rate Dated. 21/10/2019
4) Estimate is Prepared Making Use of essential itemof work as per site conditions in safest way of Execution in most economical wa
5) This work is not include in any other program of work.

Assistant Engineer
Ward No.05

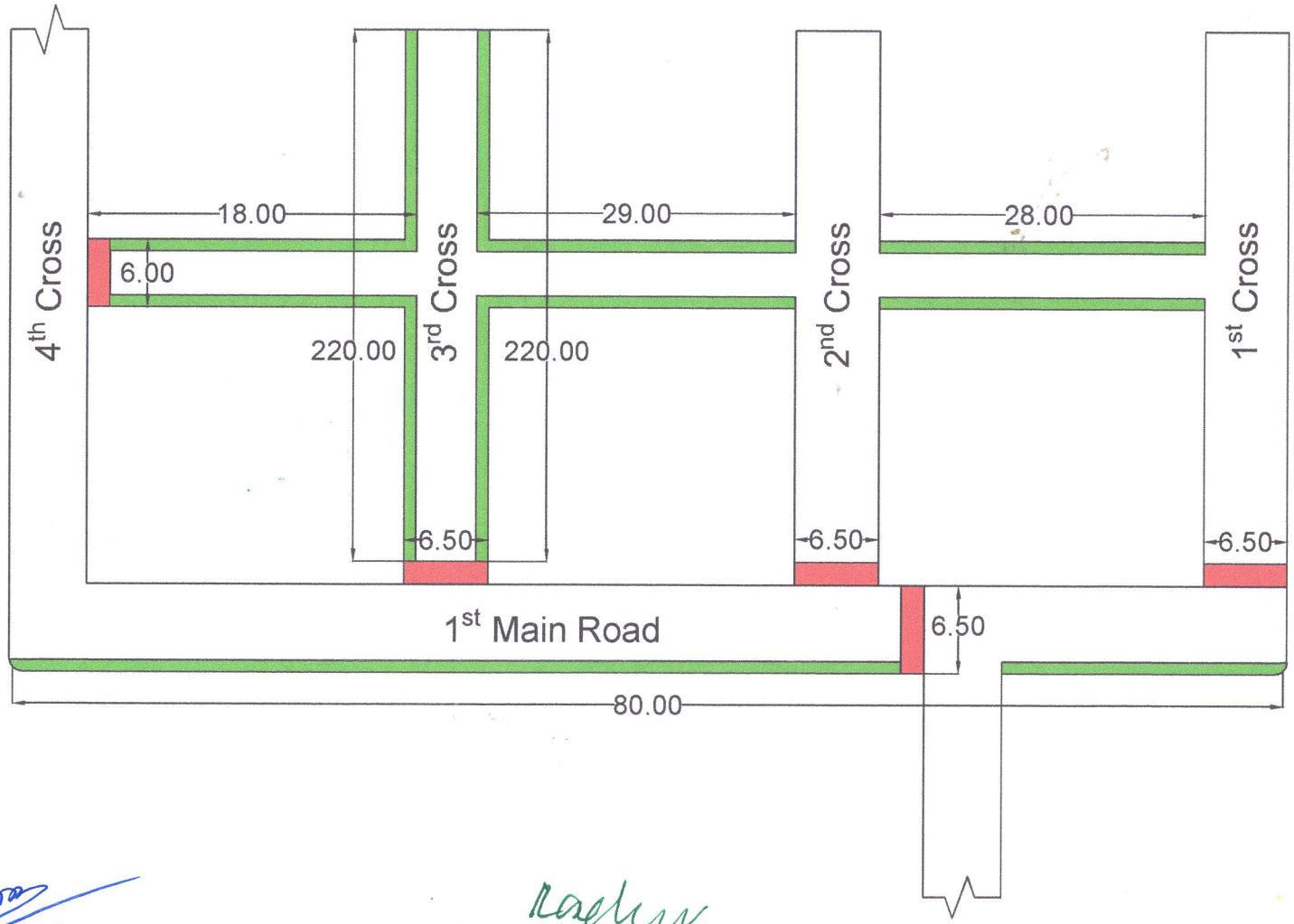
Asst. Executive Engineer,
Byatarayanapura Sub division,

Executive Engineer,
Byatarayanapura Division
27/02

ADMINISTRATIVE APPROVAL
Accorded For Rs. 66.00 Lakhs only
Head of A/c. P3736
Div. Ref. No. 113/19-20 Date 16-3-2020
AE 16/03
EE(BTP) 16/03

Technically sanctioned for Rs. 6600,000/-
Rs. SIXTY SIX LAKH ONLY
Under P 3736
Job Code No. 005-20-000078
Registered as SE(Y)/TS/ 45 / 19-20
to conditions contained in enclosed memo
No. 45 / 19-20 Dated: 16/3/2020
16/03/2020
SE/JE TA

Name of Work :- Construction of RCC Drain & RCC Culverts at 1st Main Road, Cross roads & surrounding area, Muneshwara Nagara in Ward No.05



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RCC Drain

RCC Culvert

Assistant Engineer
Ward No.05

Assistant Executive Engineer
Byatarayanapura Sub division,

All Dimensions are in Meters